W6 MIN.

W5 MIN.

9" MIN.

W2

8" MIN.

W3'

W4'

X'

α'

α'

X

W4

8" MIN.

W2

W5 MIN.

9" MIN.

W6 MIN.

W3

W1

α

$\ast$
FOR 2 :1 SLOPE, USE 2

$L = \ast$ SLOPE X H2

$L = W2 + W3 + W4$

$H1 = $ VERTICAL CLEARANCE + SLAB + 2"

$X = $ WING LENGTH (SEE FIGURE 9-12)

$W1 = 1'-3''$

$W2 = 10''$ FOR VERTICAL CLEARANCE THRU 10'-0''

$W2 = 12''$ FOR VERTICAL CLEARANCE OVER 10'-0''

$W3 = L - W2 - W4$

$W4 = (X) SIN\alpha$
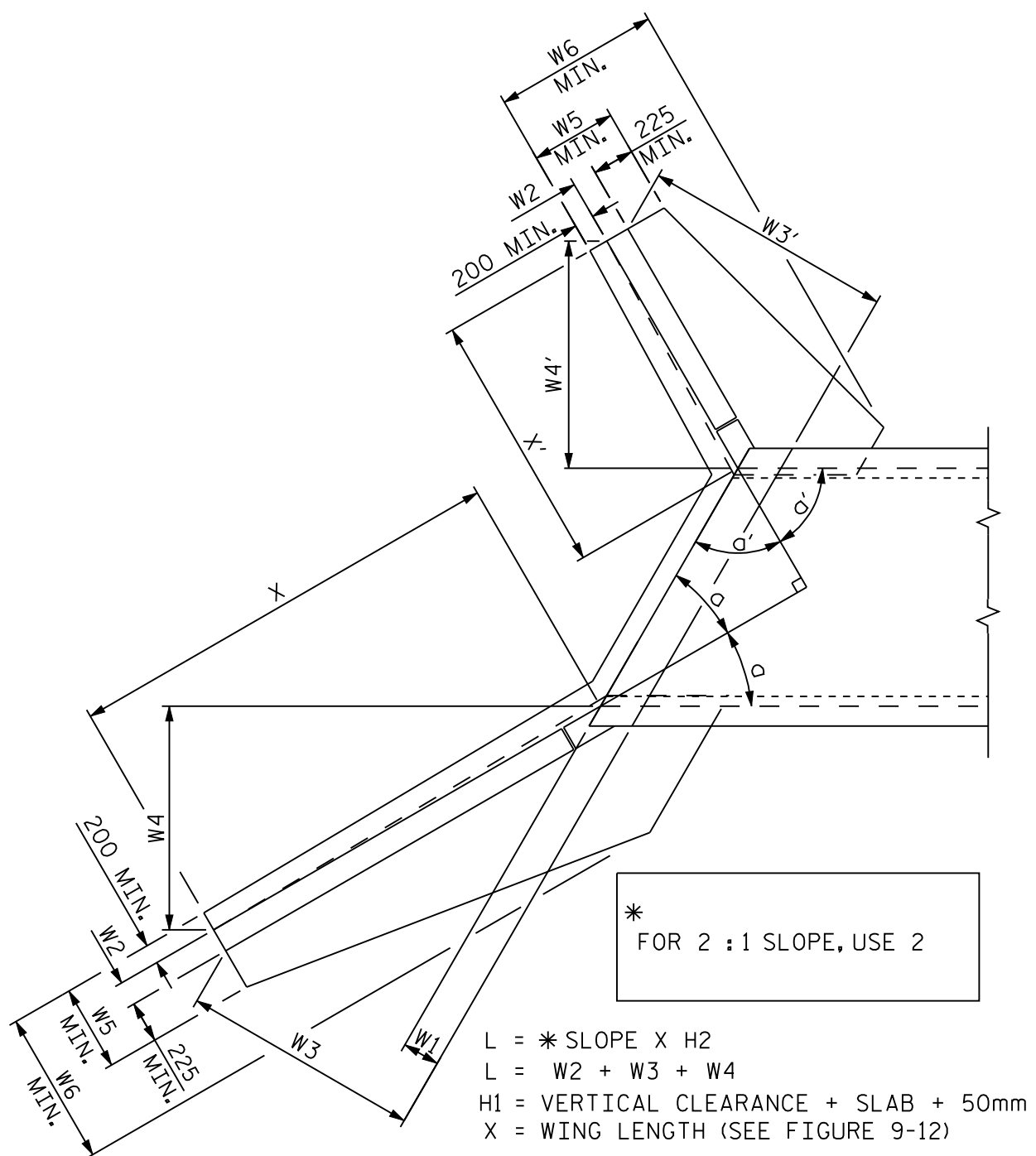
$W5 = $ WIDTH OF FTG. AT END OF WING $= \dfrac{H3 + F1}{2}$

$W6 = $ WIDTH OF FTG. AT END OF WING $= \dfrac{H1 + F1}{2}$

FTG. DIMENSION FROM BACK OF WALL TO FRONT OF FTG. = 1/3 TOTAL WIDTH
(8'' MIN. FROM FRONT OF WALL TO EDGE OF FOOTING)

FTG. DIMENSION FROM BACK OF WALL TO BACK EDGE OF FTG. = 2/3 TOTAL WIDTH
(9'' MIN.)

LAYOUT FOR TURNED BACK CULVERT WINGS

FIGURE 9 – 13

* FOR 2 : 1 SLOPE, USE 2

L = * SLOPE X H2
L = W2 + W3 + W4
H1 = VERTICAL CLEARANCE + SLAB + 50mm
X = WING LENGTH (SEE FIGURE 9-12)

W1 = 380mm
W2 = 250mm FOR VERTICAL CLEARANCE THRU 3.0m
W2 = 300mm FOR VERTICAL CLEARANCE OVER 3.0m
W3 = L - W2 - W4
W4 = (X) SINα

W5 = WIDTH OF FTG. AT END OF WING = $\dfrac{H3 + F1}{2}$

W6 = WIDTH OF FTG. AT END OF WING = $\dfrac{H1 + F1}{2}$

FTG. DIMENSION FROM BACK OF WALL TO FRONT OF FTG. = 1/3 TOTAL WIDTH
(200mm MIN. FROM FRONT OF WALL TO EDGE OF FOOTING)

FTG. DIMENSION FROM BACK OF WALL TO BACK EDGE OF FTG. = 2/3 TOTAL WIDTH
(225mm MIN.)

LAYOUT FOR TURNED BACK CULVERT WINGS

FIGURE 9 – 13 M